



Water-Data Report 2008

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°55'35", long 74°17'34" referenced to North American Datum of 1983, Lincoln Park Borough, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Ryerson Road in Lincoln Park, 700 ft north of intersection of Ryerson Road and Park Avenue, 0.3 mi upstream of mouth, and 1.6 mi northwest of Mountain View.

DRAINAGE AREA.--13.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft³/s
Nov 13, 2007	11.2
Feb 27, 2008	55.1
May 5, 2008	12.0
Aug 18, 2008	1.16

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator and Statewide Status, NJ Department of Environmental Protection Watershed Management Area 3.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Instan- taneous dis- charge, ft ³ /s (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)
Nov 13...	1130	11	9.7	.315	.246	754	9.1	78	7.3	409	12.5	8.7	120
Feb 27...	1150	55	8.1	.196	.150	743	11.5	90	7.0	442	8.0	3.8	88
May 05...	1110	12	5.2	.235	.180	758	9.8	94	7.2	411	16.5	13.7	120
Aug 18...	1140	1.1	9.2	.235	.183	755	5.9	64	7.1	487	28.0	19.5	120

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 13...	34.6	9.13	1.84	28.1	85	55.6	E.08	14.4	24.5	E221	239	3	.45
Feb 27...	25.0	6.35	1.52	46.8	50	87.2	E.07	10.3	19.1	E229	249	9	.30
May 05...	33.2	8.68	1.48	31.0	84	59.9	E.09	12.3	20.5	E219	241	2	.42
Aug 18...	34.3	8.88	2.71	39.1	96	76.6	.13	12.3	20.1	E255	272	2	.43

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)
Nov 13...	.092	.34	.06	.79	.85	E.009	.019	.046	.6	<.04	.6	6.9	--
Feb 27...	.095	.58	.08	.88	.96	.011	.026	.051	.9	<.04	.9	4.2	.37
May 05...	.105	.34	.06	.76	.82	E.004	.014	.033	.5	<.04	.5	4.6	--
Aug 18...	.092	.71	<.04	1.1	--	E.007	.017	.038	.3	<.04	.3	4.9	.65

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover- able, µg/L (01007)	Beryllium, water, unfltrd recover- able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover- able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, unfltrd recover- able, µg/L (01034)	Copper, water, unfltrd recover- able, µg/L (01042)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury water, unfltrd recover- able, µg/L (71900)	Nickel, water, unfltrd recover- able, µg/L (01067)
Nov 13...	--	--	--	58	--	--	--	--	--	--	--	--	--
Feb 27...	E.57	25.4	E.03	33	31	.03	.85	1.6	1,300	.79	112	<.010	1.4
May 05...	--	--	--	48	--	--	--	--	--	--	--	--	--
Aug 18...	.78	39.8	<.04	47	51	E.01	.46	1.4	1,430	.19	185	<.010	1.3

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Selenium, water, unfltrd, $\mu\text{g/L}$ (01147)	Silver, water, unfltrd recover-able, $\mu\text{g/L}$ (01077)	Zinc, water, unfltrd recover-able, $\mu\text{g/L}$ (01092)
Nov 13...	--	--	--
Feb 27...	.17	<.02	8.5
May 05...	--	--	--
Aug 18...	.12	<.02	2.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Ammonia + org-N, bed sed total, mg/kg as N (00626)	Phosphorus, bed sedimnt total, mg/kg as P (00668)	Total carbon, bed sedimnt total, g/kg (00693)	Inorganic carbon, bed sedimnt total, g/kg (00686)	Arsenic, bed sedimnt recover-able, ug/g (64847)	Cadmium, bed sedimnt recover-able, ug/g (01028)	Chromium, bed sedimnt recover-able, ug/g (01029)	Cobalt, bed sedimnt recover-able, ug/g (01038)	Copper, bed sedimnt recover-able, ug/g (01043)	Iron, bed sedimnt total digest, ug/g (01170)	Lead, bed sedimnt recover-able, ug/g (01052)	Manganese, bed sedimnt recover-able, ug/g (01053)
Aug 18...	1140	180	2,600	2.5	<.2	2.6	.060	7.5	3.6	5	13,000	5.5	140

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Mercury, bed sedimnt recover-able, ug/g (71921)	Nickel, bed sedimnt recover-able, ug/g (01068)	Selenium, bed sedimnt recover-able, ug/g (64848)	Zinc, bed sedimnt recover-able, ug/g (01093)	1,2-Dimethylnaphthalene, bed sed <2 mm, ug/kg (49403)	1,6-Dimethylnaphthalene, bed sed <2 mm, ug/kg (49404)	1Methyl-9H-fluorene, bed sed <2 mm, ug/kg (49398)	1-Methylphenanthrene, bed sed <2 mm, ug/kg (49410)	1-Methylpyrene, bed sed <2 mm, wsv nat ug/kg (49388)	236Tri-methylnaphthalene, bed sed <2 mm, ug/kg (49405)	2,6-Dimethylnaphthalene, bed sed <2 mm, ug/kg (49406)	2-Ethyl-naphthalene, bed sed <2 mm, wsv nat ug/kg (49948)	2-Methylanthracene, bed sed <2 mm, ug/kg (49435)
Aug 18...	<.007	7.5	<.1	48	<50	<50	<50	E4	E4	<50	<50	<50	<50

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	4H-Cyclo-penta-[def]-phenanthrene, <2mm ug/kg (49411)	9H-Fluorene, bed sed wsv nat ug/kg (49399)	Ace-naphthene, bed sed wsv nat ug/kg (49429)	Ace-naphthylene, bed sed wsv nat ug/kg (49428)	Anthracene, bed sed <2 mm, wsv nat field, ug/kg (49434)	Benzo-[a]-anthracene, bed sed <2 mm, wsv nat ug/kg (49436)	Benzo-[a]-pyrene, bed sed <2 mm, wsv nat ug/kg (49389)	Benzo-[b]-fluoranthene, bed sed <2 mm, wsv nat ug/kg (49458)	Benzo-[ghi]-perylene, bed sed <2 mm, wsv nat ug/kg (49408)	Benzo-[k]-fluoranthene, bed sed <2 mm, wsv nat ug/kg (49397)	Chrysene, bed sed <2 mm, wsv nat field, ug/kg (49450)	Dibenzo-[a,h]-anthracene, bed sed <2 mm, wsv nat ug/kg (49461)	Fluoranthene, bed sed <2 mm, wsv nat field, ug/kg (49466)
Aug 18...	E4	E1	E1	E2	E5	E16	E22	E32	E32	E12	E24	<50	E48

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

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Date	Indeno-[1,2,3-cd]-pyrene, bed sed <2 mm ug/kg (49390)	Iso-phorone, bed sed <2 mm, wsv nat field, ug/kg (49400)	Naphthalene, bed sed <2 mm, wsv nat ug/kg (49402)	PCBs, bed sedimnt ug/kg (39519)	p-Cresol, bed sed <2 mm, wsv nat field, ug/kg (49451)	Phenanthrene, bed sed <2 mm, wsv nat field, ug/kg (49409)	Phenanthrene, thridine, bed sed <2 mm, wsv nat ug/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, ug/kg (49387)	Bed sediment, dry svd sve dia percent <62.5um (80164)
Aug 18...	E27	<50	<50	<5.00	<50	E21	<50	E38	1